



Federal Geodetic Control Subcommittee Meeting

February 22, 2018

Agenda

Time	Topic	Presenter
1:00 – 1:10	Welcome, introductions	Juliana Blackwell
1:10 – 1:20	NGS Activities	Juliana Blackwell
1:20 – 1:40	NSRS Modernization Efforts	Dru Smith
1:40 – 1:50	NADCON Approval	Dru Smith
1:50 – 2:10	GEOID18 Update	Galen Scott
2:10 – 2:30	State Plane Coordinate System Update	Michael Dennis
2:30 – 3:00	Work Group Updates, Open Discussion, Closing Remarks	Work Group Chairs Everyone

FGCS Member Roll Call

This subcommittee coordinates geodetic data-related activities among 24 Federal and non-Federal agencies and will report its activities to FGDC.

<http://www.fgdc.gov/participation/working-groups-subcommittees/fgcs/directory>



2018 NSRS Modernization Industry Workshop

Date/location:

- May 7 - May 8, 2018
- NOAA Auditorium and Science Center (Silver Spring, MD)

Workshop Participation:

Industry - engineers/developers from:

- surveying equipment vendors;
- GIS/CAD/transformation software vendors; and
- perhaps mobile laser scanning industry

NGS - select subject matter experts and staff

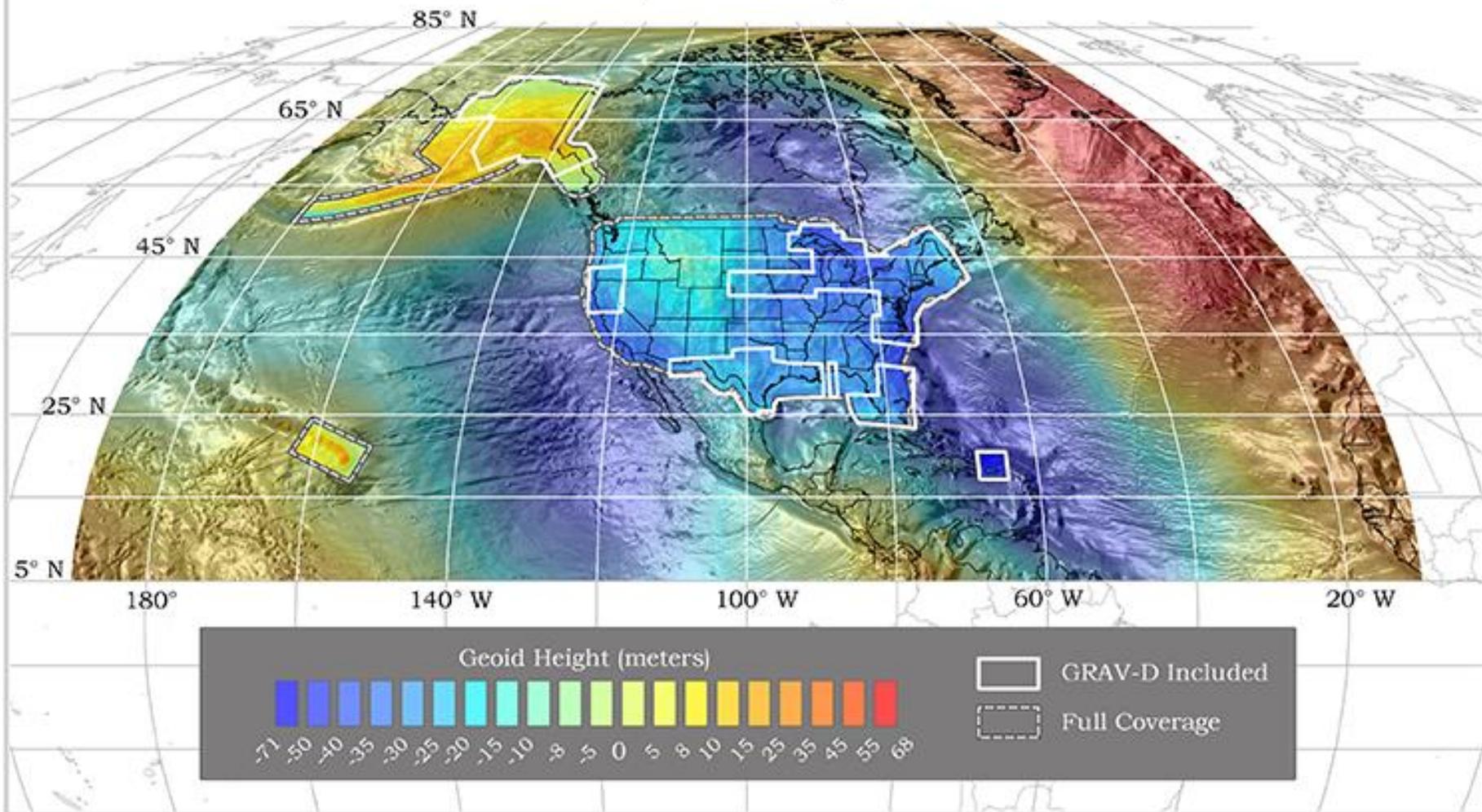
Follow-On Webinar:

- June 7, 2018
- Open to public and NGS
- geodesy.noaa.gov/web/science_edu/webinar_series/

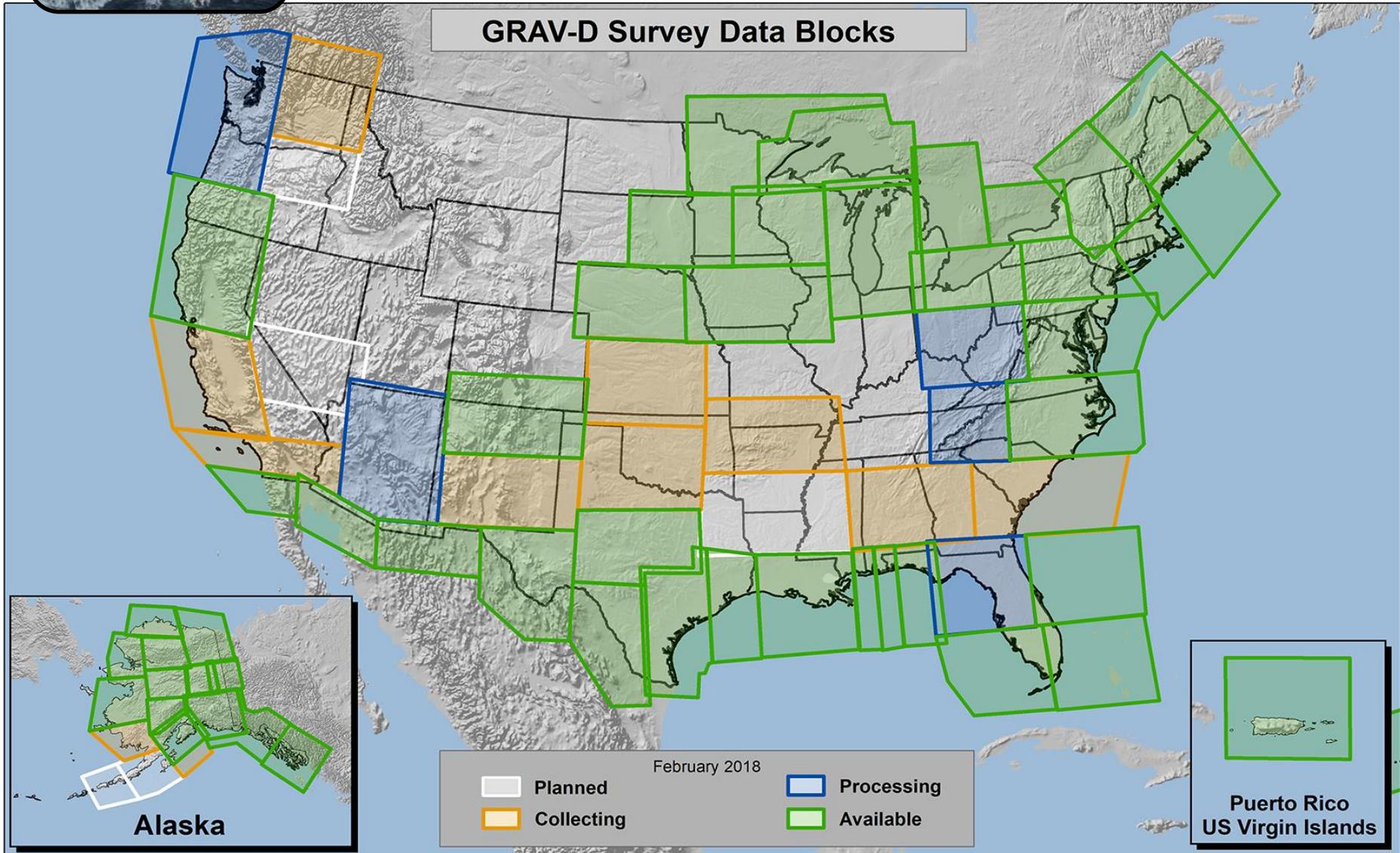


and more....

Experimental Geoid 2017 (xGEOID17)



Gravity for the Redefinition of the American Vertical Datum (GRAV-D)



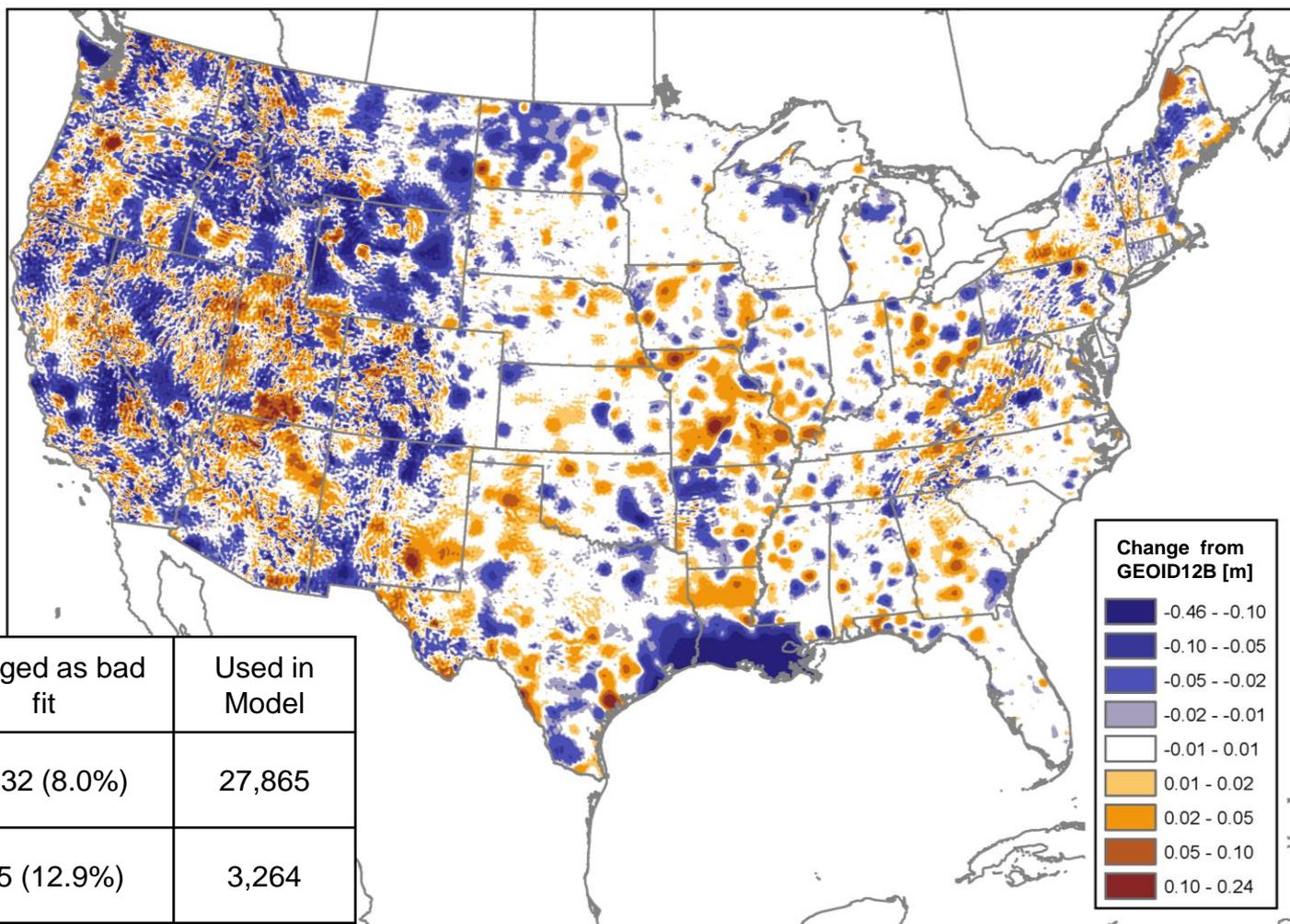
<https://geodesy.noaa.gov/GRAV-D/>

Development of GEOID18

PGI8v2.2

(prototype for GEOID18)

- Similar construction as GEOID12B
- Gravimetric Geoid Model: xGEOID17B (**Interpolate**)
- GPS on Bench Marks (**Constrain**)



GPS on BM	Available	Flagged as bad fit	Used in Model
NGS IDB:	30,297	2,432 (8.0%)	27,865
OPUS-Share:	3,749	485 (12.9%)	3,264
Total:	34,046	2,917	31,129

GPS on Bench Marks 2018 Priority List and Web Map

GPS on BM Tracking Map

Click on Clusters to Zoom In

Help

Priority A Marks
 Priority A are marks we need to either fill gaps or resolve conflicting existing information. These bench marks would provide the most value to improve geoid modeling with new observations.

Priority B Marks
 Priority B are marks where we need to confirm the relationships suggested by other data in the area... We could build the model without them but we'll have more confidence in the geoid modeling if we have more data.

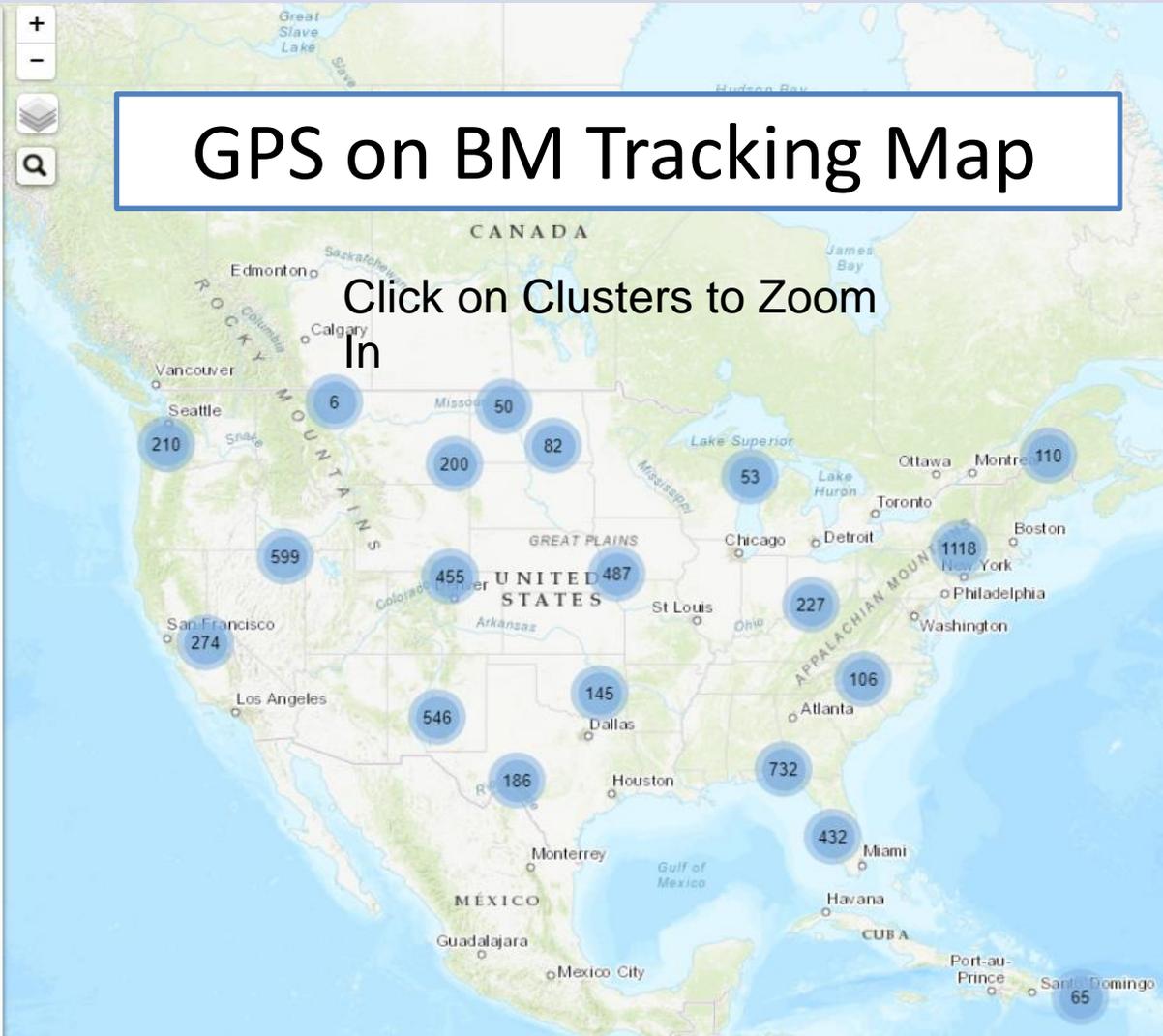
Help Notes:

- Mouse wheel and buttons on top left of menu will zoom in and out of map
- Hover over clusters to see extent of the cluster marks. Example with 487 marks below.



- Click cluster to zoom in to larger scale of cluster area
- Zoom level 9 is where there is no more clustering
- Click markers to see information
- Click on the search to search for a particular PID
- Search for a location using left menu top icon

** Right click on map for context menu*



NGDA Geodetic Community

GEOPLATFORM.gov

fgdc
Federal Geographic Data Committee

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NGDA Geodetic Control Community

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GEODETIC CONTROL THEME

Theme Lead Agency: National Oceanic and Atmospheric Administration (NOAA)

Theme Lead: Dr. Dan Roman (NOAA)



Overview



Committees And Work Groups



Geospatial Standards

NGDA Geodetic Control Community

Community Type: A-16

Sponsor: FGDC

Sponsor Email: geoplatform@fgdc.gov

You must register or login in order to subscribe to this community.

Geodetic Control Theme Definition: Survey control points or other related datasets which are accurately tied to the National Spatial Reference System, a common system for establishing coordinates for geospatial data that are consistent nationwide. Examples include: (1) benchmarks, (2) triangulation or GPS survey stations (3) data from Global Navigation Satellite Systems (e.g., GPS), (4) gravity measurements, and (5) models of the earth's gravity field (geoid).

FGDC Geodetic Control Subcommittee

Geospatial Positioning Accuracy Standards, Part 1: Reporting Methodology (1998)

Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks (1999)

Geospatial Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy (1998)

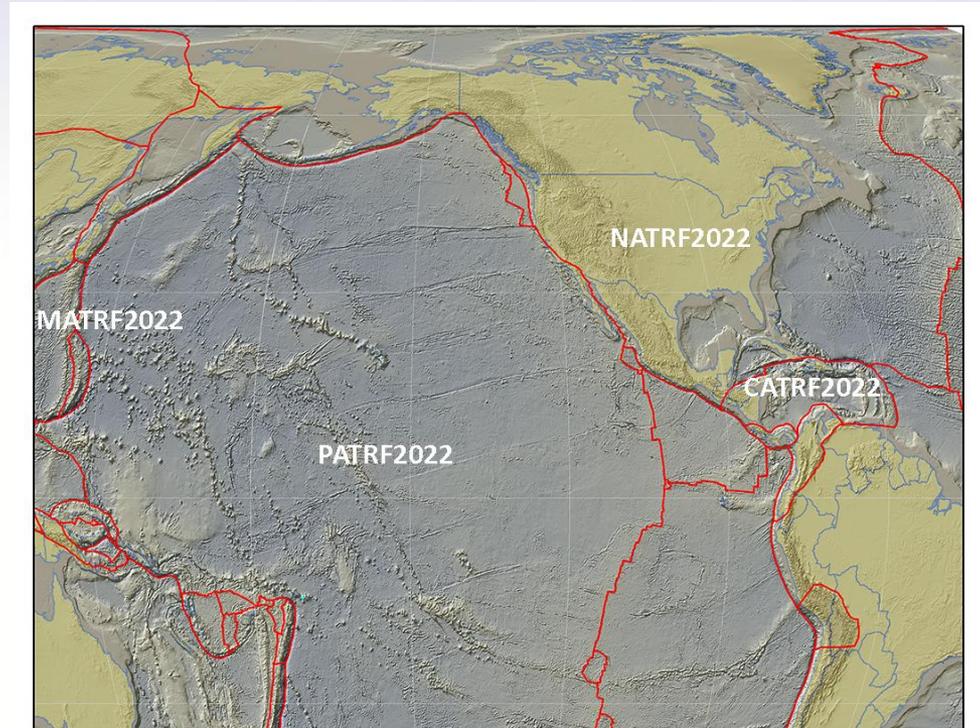
Geospatial Positioning Accuracy Standards, Part 4: Architecture, Engineering, Construction, and Facilities Management (2002)

Geospatial Positioning Accuracy Standards, Part 5: Standards for Nautical Charting Hydrographic Surveys (2005)

Geographic information - Geodetic codes and parameters (ISO) (2010)

International Coordination

- IAG (Comm. 1 & 2)
 - ITRF/IHRF
- UN-GGIM
 - UN-SCOG (GGRF)
 - UN-GGIM-Americas
 - UN-GGIM-AP
 - SIRGAS
- CGU (IAG), FIG et al.
- ISO – TC 211/172
- GLCC/IGLD 2020 (2025 release)



Work Group Updates and Open Discussion

Thursday, October 12, 2017

FGCS Meeting